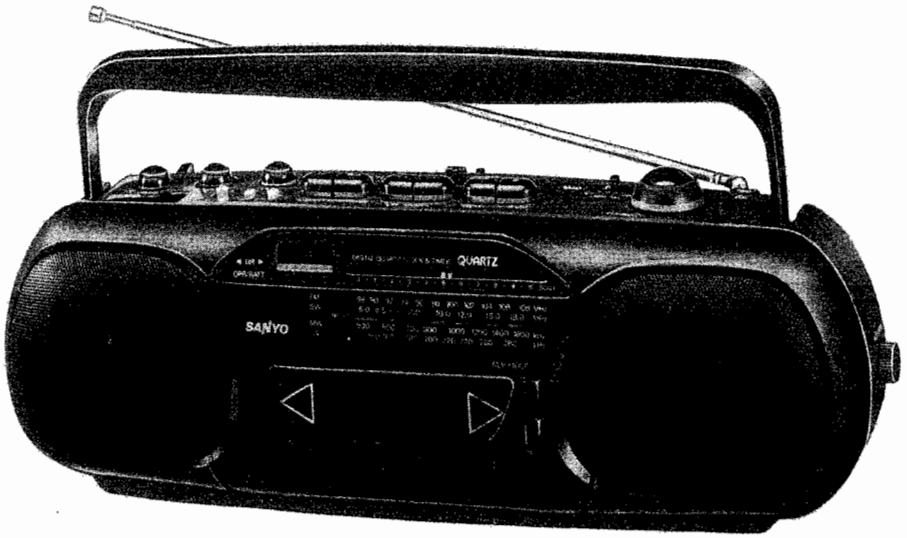
1875

SANYO

Service Manual Cassette Recorder M S380L (EUROPE)



Specifications

PRODUCT CODE No.
142 852 52 (Black)
142 852 53 (Red)
142 852 54 (White)

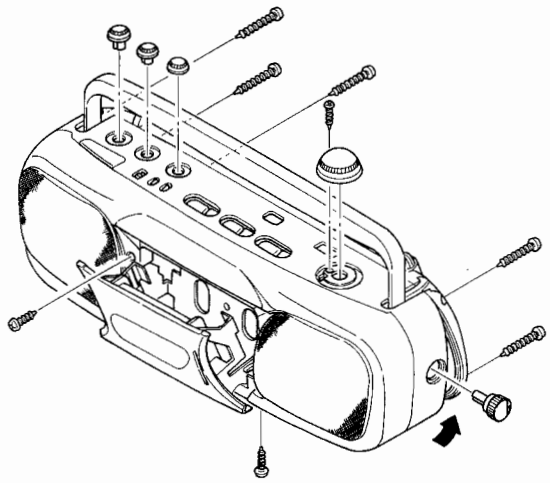
Recording system ...	AC bias, 4 - track stereo
Erasing system	Magnet erase, 2 - track
Tape speed	4.75 cm/sec.
Fast forward time	130 sec. (C-60)
Rewind time	120 sec. (C-60)
Frequency range	FM : 87.5 - 108 MHz SW : 5.95 - 18.0 MHz MW : 526.5 - 1,606.5 kHz LW : 148.5 - 283.5 kHz
Frequency response ..	80 - 14,000 Hz
Terminal impedance	PHONES : 32 ohm
Output power	5 W (P.M.P.O.)
Power source	DC : 9 V, " R6 " × 6 batteries AC : 220 V, 50 Hz (AC adaptor supplied) Clock : DC 3 V, "R6 " × 2 batteries
Dimensions	Approx. 350 (W) × 120 (H) × 100 (D) mm
Weight	Approx. 1.71kg including batteries

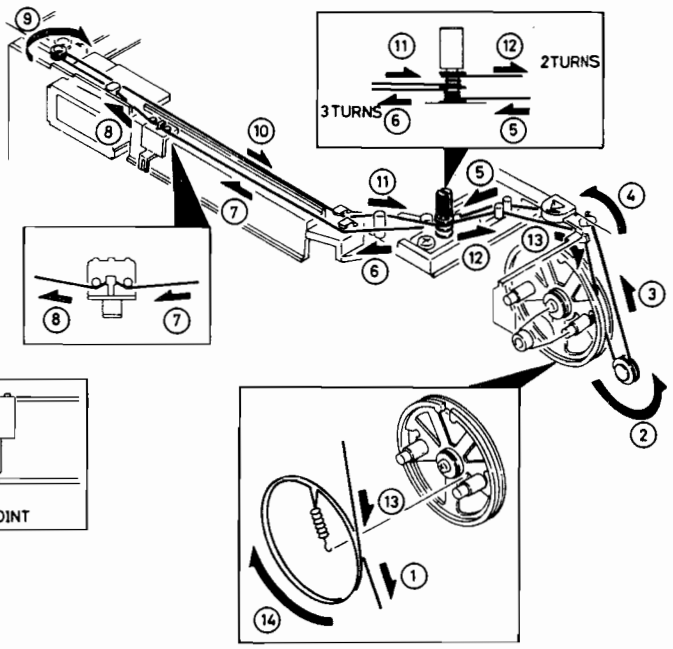
Specifications and design subject to change without notice.

REFERENCE No. WM-580423

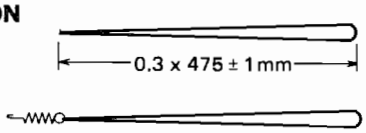
1875

DISASSEMBLY & DIAL CORD INSTALLATION





• **PREPARATION**

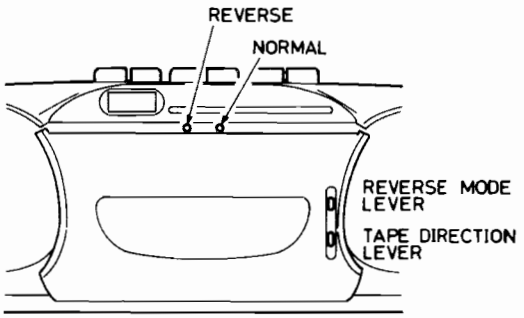


TAPE DECK ADJUSTMENT ADJUSTMENTS

a HEAD AZIMUTH ADJUSTMENT

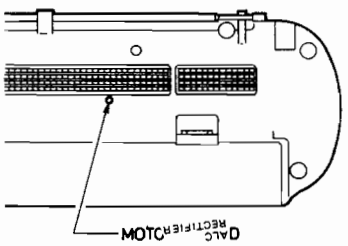
- After replacement, demagnetize the heads by using a head eraser.
- Be sure to clean the heads before attempting to make any adjustments.
- After completion of the adjustment, use threadlock (TB - 1401B) to secure the azimuth adjustment screw.

(1) Load a test tape (VTT-703, etc. ; 10 kHz) for azimuth adjustment .
(2) Press the PLAY button.
(3) Use a flat-tip (-) screwdriver to turn the screw for azimuth adjustment so that the left and right outputs are maximized at the same phase during playback.
(4) Press the STOP button.



b MOTOR SPEED ADJUSTMENT

(1) Load a test tape (MTT-111N, etc., 3,000Hz).
(2) Press the PLAY button.
(3) Use a flat - tip (-) screwdriver to turn the SVR (located inside the rear of the motor) to adjust so that the frequency counter becomes 3,000 Hz.



c CHECKING THE MECHANISM TORQUE AND TENSION

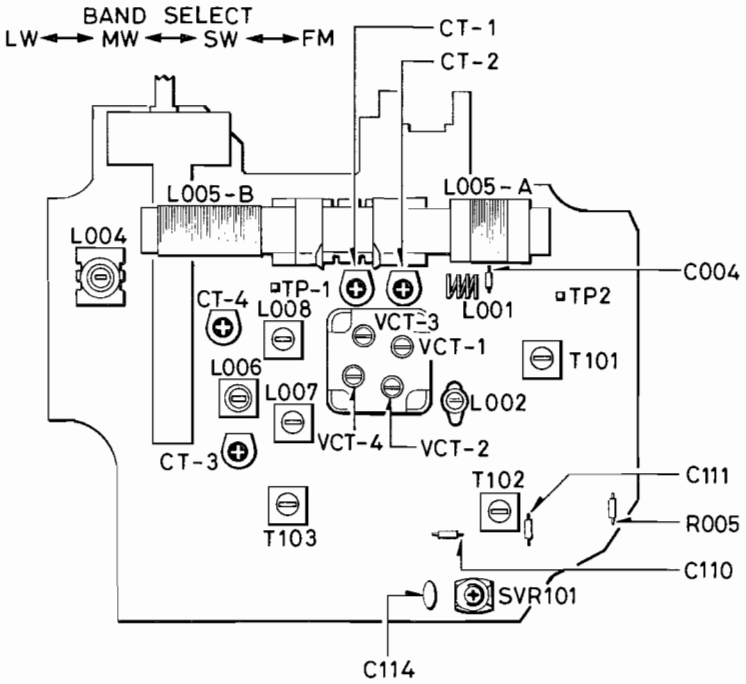
- Clean the head, capstan and pinch roller before measurement.

Measuring item	Take-up torque	Back tension	Tape tension
Cassette for measurement	PLAY:TW-2111A (FWD) PLAY:TW-2121A (REV) F.FWD / REW:TW2231	PLAY:TW-2111A (FWD) PLAY:TW-2121A (REV)	Drive power cassette TW-2412 (FWD) TW-2422 (REV)
PLAY	30 ~90gr·cm	2 ~ 6 gr·cm	more than 80 gr
F. FWD / REW	70 ~ 130 gr.cm	-	-

TUNER ADJUSTMENTS

- Use a plastic screwdiver for adjustment.
- Adjust the intermediate frequency of FM and MW to the frequency of ceramic filter.
- Make adjustments without removing the tuner printed-circuit board from the cabinet

Supply voltage : DC 9 V
Speaker impedance : 6 ohm
Standard Output : 50mW (0.55 V)
Function selector : RADIO



MW ADJUSTMENT BAND SELECT SWITCH : MW

Step	Adjusting Circuit	Connections		SG Frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	IF	Closed the output terminal by sweep generator, it place to L005-A	Connect sweep generator to C110, C111 (GND)	455 kHz	Low	T103	Max.
2	Tuning Coverage	Connect AM SG to Test Loop	Connect VTVM to speaker terminals	515 kHz	Low end	L007	Max.
3				1640 kHz	High end	VCT-4	
4	Tracking	Connect AM SG to Test Loop	Connect VTVM to speaker terminals	600 kHz	600 kHz	L005-B	Max.
5				1400 kHz	1400 kHz	CT-1	
6	Repeat adjustments						

LW ADJUSTMENT BAND SELECT SWITCH : LW

Step	Adjusting Circuit	Connections		SG Frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	Tuning Coverage	Connect AM SG to Test Loop	Connect VTVM to speaker terminals	140 kHz	Low end	L008	Max.
2				290 kHz	High end	CT-4	
3	Tracking	Connect AM SG to Test Loop	Connect VTVM to speaker terminals	160 kHz	160 kHz	L005-A	Max.
4				280 kHz	280 kHz	CT-2	
5	Repeat adjustments						

TUNER ADJUSTMENTS

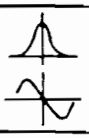
SW ADJUSTMENT

BAND SELECT SWITCH : SW SW DUMMY ANTENNA PAD (50 ohm, 10pF)

Step	Adjusting Circuit	Connections		SG Frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	Tuning Coverage	Connect AM SG to ANT. terminal through dummy	Connect VTVM to speaker terminals	5.8 MHz	Low end	L006	Max.
2				19.0 MHz	High end	CT-3	
3	Tracking	Connect AM SG to ANT. terminal through dummy	Connect VTVM to speaker terminals	7.0 MHz	7.0 MHz	L004	Max.
4				18.0 MHz	18.0 MHz	VCT-3	
5	Repeat adjustments						

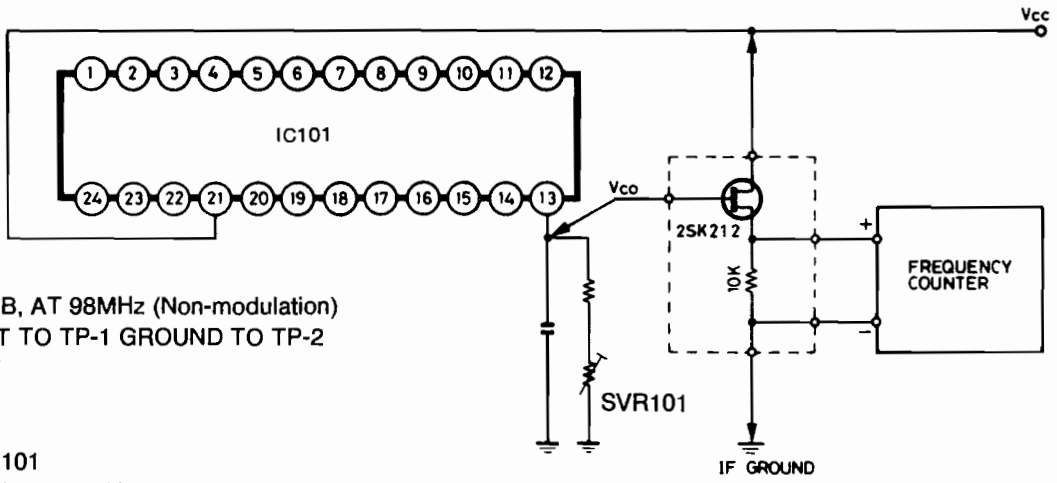
FM ADJUSTMENT

BAND SELECT SWITCH : FM FM DUMMY ANTENNA PAD (75 ohm unbalance)

Step	Adjusting Circuit	Connections		SG Frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	IF	Connect sweep generator to output line to C4, TP 2 (GND)	Connect sweep generator of input line to R5, C111 (GND)	10.7 MHz	Low	T101	
2						T102	
3	Tuning Coverage	Connect FM SG to TP1 (H) & TP2 (GND)	Connect VTVM to speaker terminals	87.35 MHz	Low end	L002	Max.
4				108.3 MHz	High end	VCT-2	
5	Traking	Connect FM SG to TP1 (H) & TP2 (GND)	Connect VTVM to speaker terminals	90.0 MHz	90.0 MHz	L001	Max.
6				106.0 MHz	106.0 MHz	VCT-1	
7	Repeat adjustments						

FM VCO ADJUSTMENT

BAND SELECT SWITCH : FM STEREO

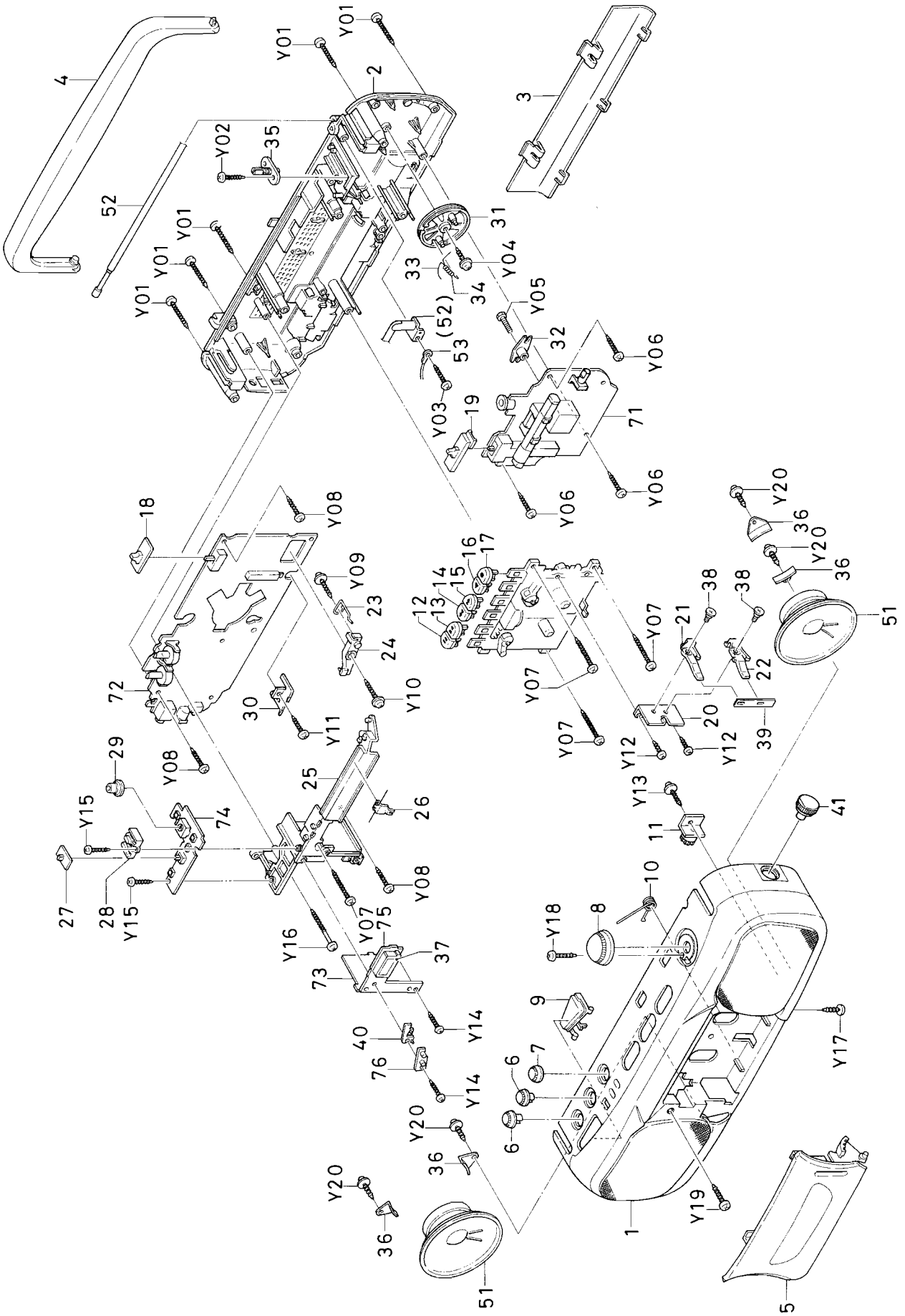


(1) INPUT
SIGNAL : 60dB, AT 98MHz (Non-modulation)
CONNECTION : HOT TO TP-1 GROUND TO TP-2
PILOT SIGNAL : OFF

(2) ADJUSTMENT
ADJUST : SVR101
FREQUENCY : 76kHz ± 150 Hz

- Turn SVR101 until the frequency counter reads 76.0 kHz ±150 Hz.

EXPLODED VIEW (CABINET & CHASSIS)



PARTS LIST

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.
Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

CAUTION : Regular type resistors and capacitors are not listed. To know those values, refer to the schematic diagram.

NOTE : N.S.P. (Not available as service parts)

PACKING & ACCESSORIES

Ref. No.	Part No.	Description
	614 220 7192	INNER CARTON
	614 217 7969	PAD, LEFT
	614 217 7952	PAD, RIGHT
	614 220 7208	INSTRUCTION MANUAL
	614 220 5716	SHEET, 180X900MM, SET
	614 220 9752	POLY COVER, 500X300MM, SET
	⚠ 614 218 6985	ADAPTOR, AC-DC

CABINET & CHASSIS

Ref. No.	Part No.	Description
1	614 222 9477	ASSY, CABINET, RED
	614 222 9484	ASSY, CABINET, WHITE
	614 218 6497	ASSY, CABINET, BLACK
2	614 222 9491	ASSY, CABINET, REAR, BACK LID, RED
	614 222 9507	ASSY, CABINET, REAR, BACK LID, WHITE
	614 218 6510	ASSY, CABINET, REAR, BACK LID, BLACK
3	614 220 7277	ASSY, LID, BATTERY, RED
	614 220 7260	ASSY, LID, BATTERY, WHITE
	614 220 7253	ASSY, LID, BATTERY, BLACK
4	614 220 4498	ASSY, HANDLE, RED
	614 220 4498	ASSY, HANDLE, WHITE
	614 215 6865	ASSY, HANDLE, BLACK
5	614 222 9538	ASSY, LID, CASSETTE, TOP LID, RED
	614 222 9545	ASSY, LID, CASSETTE, TOP LID, WHITE
	614 218 7081	ASSY, LID, CASSETTE, TOP LID, BLACK
6	614 220 4405	ASSY, KNOB, ROTARY, TONE/VOLUME, RED/WHITE
	614 215 6773	ASSY, KNOB, ROTARY, TONE/VOLUME, BLACK
7	614 220 4412	ASSY, KNOB, ROTARY, TIMER, RED/WHITE
	614 215 6780	ASSY, KNOB, ROTARY, TIMER, BLACK
8	614 220 4429	ASSY, KNOB, ROTARY, TUNING, RED/WHITE
	614 215 6797	ASSY, KNOB, ROTARY, TUNING, BLACK
9	614 220 5372	BUTTON, SNOOZE, RED/WHITE
	614 217 1011	BUTTON, SNOOZE, BLACK
10	614 215 2836	SPRING, WIRE, TOP LID
11	614 069 0378	GEAR ASSY, SOFT EJECT
12	614 220 4436	ASSY, BUTTON, PAUSE, RED/WHITE
	614 215 6803	ASSY, BUTTON, PAUSE, BLACK
13	614 220 4467	ASSY, BUTTON, STOP/EJECT, RED/WHITE
	614 219 0050	ASSY, BUTTON, STOP/EJECT, BLACK
14	614 220 4443	ASSY, BUTTON, F.FWD, RED/WHITE
	614 215 6810	ASSY, BUTTON, F.FWD, BLACK
15	614 220 4474	ASSY, BUTTON, REW, RED/WHITE
15	614 219 0067	ASSY, BUTTON, REW, BLACK
16	614 220 4450	ASSY, BUTTON, PLAY, RED/WHITE
	614 215 6827	ASSY, BUTTON, PLAY, BLACK
17	614 220 4481	ASSY, BUTTON, RECORD, RED/WHITE
	614 219 0074	ASSY, BUTTON, RECORD, BLACK
18	614 220 1916	KNOB, SLIDE, FUNCTION, RED/WHITE
	614 215 2317	KNOB, SLIDE, FUNCTION, BLACK
19	614 220 1923	KNOB, SLIDE, BAND, RED/WHITE
	614 215 2324	KNOB, SLIDE, BAND, BLACK
20	614 215 2751	BRACKET-M, LEVER KNOB
21	614 220 1930	KNOB, LEVER, REVERSE MOTE, RED/WHITE
	614 215 2454	KNOB, LEVER, REVERSE MODE, BLACK
22	614 220 1947	KNOB, LEVER, TAPE DIRECTION, RED/WHITE
	614 215 2461	KNOB, LEVER, TAPE DIRECTION, BLACK
23	614 215 2829	SPRING, WIRE, RECORD/PLAY LEVER
24	614 215 2812	LEVER, RECORD/PLAY
25	614 215 6889	ASSY, CHASSIS
26	614 215 2690	POINTER
27	614 215 2300	KNOB, SLIDE, REAL/TIMER/SLEEP
28	614 215 2584	BUTTON, TIMER
29	614 216 5638	SHAFT, TIMER, ROTARY
30	614 218 6008	GUIDE, AMP. P.C.BOARD
31	614 132 3442	DRUM, TUNING CAPACITOR
32	614 214 6859	BRACKET CAPACITOR, TUNING CAPACITOR
33	614 118 5590	ROPE, DIAL CORD, 0.3X1200MM
34	614 146 8778	SPRING COIL, DIAL CORD
35	614 068 8566	TUNING SHAFT ASSY
36	614 122 0741	BRACKET SPEAKER, SPEAKER MTG.
37	614 215 2744	BRACKET-E, LCD
38	614 124 1494	SPECIAL SCREW, KNOB, BRACKET
39	614 220 1725	COVER, LEVER KNOB
40	614 220 4184	SPACER, LED P.C.BOARD
41	614 220 5785	ROTARY KNOB, FINE TUNING, RED/WHITE
	614 104 5566	ROTARY KNOB, FINE TUNING, BLACK
	614 125 0236	CUSHION, 5X15MM, CABINET MTG.
	614 126 2574	CUSHION, 5X15X5MM, LCD MTG.
	614 125 0236	CUSHION, 5X15MM, BACK LID MTG.
	614 222 1440	SPACER, C-MIC MTG.

FIXING PARTS

Ref. No.	Part No.	Description
Y01	411 021 4906	SCR S-TPG BIN 3X20MM, BACK LID
Y02	411 021 4005	SCR S-TPG BIN 3X12MM, TUNING SHAFT

PARTS LIST

Ref. No.	Part No.	Description
Y03	411 020 9100	SCR S-TPG BRZ + FLG 3X12MM, ROD ANTENNA
Y04	412 003 1708	SPECIAL SCREW, DRUM
Y05	411 098 7008	BOLT HEX C-SCT 2.6X10MM, BRACKET CAPACITOR
Y06	411 021 3503	SCR S-TPG BIN 3X10MM, TUNER P.C.B.
Y07	411 021 4906	SCR S-TPG BIN 3X20MM, MECHANISM
Y08	411 021 3503	SCR S-TPG BIN 3X10MM, AMP. P.C.B.
Y09	411 020 9100	SCR S-TPG BRZ + FLG 3X12MM, RECORD/PLAY WIRE
Y10	411 020 9100	SCR S-TPG BRZ + FLG 3X12MM, RECORD/PLAY LEVER
Y11	411 021 3503	SCR S-TPG BIN 3X10MM, GUIDE
Y12	411 099 0503	SCR TPG PAN PCS 1.7X6MM, BRACKET-M MECHANISM
Y13	411 021 4005	SCR S-TPG BIN 3X12MM, GEAR
Y14	411 022 6701	SCR S-TPG PAN 2X10MM, LCD P.C.B.
Y15	411 022 6701	SCR S-TPG PAN 2X10MM, TIMER P.C.B.
Y16	411 026 5205	SCR S-TPG PAN 3X35MM, CHASSIS
Y17	411 002 9104	SCR PAN 3X8MM, CABINET BOTTOM
Y18	411 022 6701	SCR S-TPG PAN 2X10MM, CABINET TOP
Y19	411 023 5406	SCR S-TPG PAN 3X16MM, CHASSIS
Y20	411 021 6405	SCR S-TPG BIN 3X8MM, SPEAKER

ELECTRICAL PARTS

Ref. No.	Part No.	Description
51	614 215 4489	SPEAKER, WOOFER
52	614 023 7030	ROD ANTENNA
53	614 051 9785	LUG, ROD ANTENNA
	614 217 8898	PCB, CLOCK BATTERY
	614 215 4670	SOCKET, 3P, SPEAKER
	614 215 4656	SOCKET, 7P, MECHANISM
	614 223 2378	SOCKET, 7P, MECHANISM
	614 215 4649	SOCKET, 4P, BATTERY, CLOCK
	614 019 7631	SOCKET, 1P, ROD ANTENNA

TUNER P.C.BOARD ASSY

Ref. No.	Part No.	Description
71	614 218 6343	ASSY, PCB, TUNER
	614 035 5987	SOCKET, 7P, AMP.
	614 001 6321	MIC
VC/VCT	614 007 8480	TUNING CAPACITOR
CT1	614 007 6356	TRIMMER, 11PF
CT2	614 007 6332	TRIMMER, 30PF
CT3	614 007 6356	TRIMMER, 11PF
CT4	614 007 6332	TRIMMER, 30PF
T101	614 030 3674	I.F.T, FM
or	614 030 3681	I.F.T, FM
T102	614 030 4244	I.F.T, FM
or	614 030 4251	I.F.T, FM
T103	614 030 4053	I.F.T, AM
or	614 030 4060	I.F.T, AM
L1	614 034 8293	VHF COIL, FM
L2	614 035 0012	VHF COIL, FM
L3	614 028 6663	FILTER, SW
L4	614 032 8943	ANTENNA COIL, SW
L5	614 218 6473	ASSY, BAR ANTENNA, MW/LW
L6	614 034 1508	O.S.C COIL, SW
L7	614 034 1485	O.S.C COIL, MW
L8	614 034 1447	O.S.C COIL, LW

Ref. No.	Part No.	Description
L9	614 032 5775	ANTENNA COIL, FM BPF
X101	614 030 5074	I.F FILTER, RED, FM
or	614 030 5081	I.F FILTER, BLUE, FM
or	614 030 5098	I.F FILTER, ORANGE, FM
or	614 030 5104	I.F FILTER, BLACK, FM
or	614 030 5111	I.F FILTER, WHITE, FM
X102	614 030 5074	I.F FILTER, RED, FM
or	614 030 5081	I.F FILTER, BLUE, FM
or	614 030 5098	I.F FILTER, ORANGE, FM
or	614 030 5104	I.F FILTER, BLACK, FM
or	614 030 5111	I.F FILTER, WHITE, FM
X103	614 030 7597	I.F FILTER, AM
S1	614 215 3550	SWITCH, SLIDE, BAND
VR1	614 003 4981	VARIABLE RESISTOR, FINE TUNING
or	614 003 6985	VARIABLE RESISTOR, FINE TUNING
SVR101	614 003 3083	SEMI-FIXED RESISTOR
TP	614 017 6964	TERMINAL BOARD, TEST POINT
or	614 123 1808	TERMINAL, TEST POINT
IC1	409 174 7509	IC LA1188-A
IC101	409 163 3802	IC LA1805-SS
Q1	405 018 7902	TR 2SC380TM-O
Q2	405 018 7902	TR 2SC380TM-O
Q101	405 018 7902	TR 2SC380TM-O
D2	407 000 2605	VARACTOR DI SD115
D3	407 000 2605	VARACTOR DI SD115
D920	407 053 8708	ZENER DIODE MTZ9.1A
C62	403 081 7805	POLYPRO 350P J 100V
C64	403 087 8905	STYRENE 250P J 50V
C114	403 080 8902	POLYPRO 1500P J 100V

AMP. P.C.BOARD ASSY

Ref. No.	Part No.	Description
72	614 218 7050	ASSY, PCB, AMP.
	614 217 8904	JACK, PHONES
	614 019 8133	SOCKET, EXT. DC
	614 017 2102	PLUG, 3P, SPEAKER
	614 017 2119	PLUG, 4P, BATTERY
	614 017 2553	PLUG, 4P, RECORD/PLAY HEAD
	614 017 2584	PLUG, 7P, MECHANISM
	614 035 4966	SOCKET, 7P, TUNER/MIC
	614 035 5970	SOCKET, 6P, CLOCK
	614 217 7266	LUG, LEAD MTG.
L901	614 217 5927	TRANSFORMER, OSC
S2	614 018 9728	SWITCH, FM MODE
S701	614 217 8928	SWITCH, SLIDE, RECORD/PLAY (S701~703,801~803,901~904)
S711	614 215 4168	SWITCH, FUNCTION (S711,811,911~921)
VR701	614 003 7876	VARIABLE RESISTOR, TONE (VR701,801)
VR702	614 003 7869	VARIABLE RESISTOR, VOLUME (VR702,802)
IC901	409 035 6306	IC M51164AL
IC902	409 067 6701	IC LA4558
Q605	405 043 4709	TR 2SB1166-R
or	405 043 4808	TR 2SB1166-S
Q701	405 012 2002	TR 2SC1815-GR
or	405 020 7204	TR 2SC945A-K
Q801	405 012 2002	TR 2SC1815-GR
or	405 020 7204	TR 2SC945A-K
Q901	405 012 2002	TR 2SC1815-GR
or	405 020 7204	TR 2SC945A-K
Q902	405 012 2002	TR 2SC1815-GR
or	405 020 7204	TR 2SC945A-K
Q903	405 012 7403	TR 2SC2001-K
Q904	405 012 2002	TR 2SC1815-GR
or	405 020 7204	TR 2SC945A-K
Q905	405 012 2002	TR 2SC1815-GR
or	405 020 7204	TR 2SC945A-K
Q906	405 012 2002	TR 2SC1815-GR
or	405 020 7204	TR 2SC945A-K

PARTS LIST & EXPLODED VIEW (MECHANISM)

Ref. No.	Part No.	Description
Q907	405 012 2002	TR 2SC1815-GR
or	405 020 7204	TR 2SC945A-K
Q910	405 012 2002	TR 2SC1815-GR
or	405 020 7204	TR 2SC945A-K
Q911	405 005 2002	TR 2SA733-P
Q912	405 043 4709	TR 2SB1166-R
or	405 043 4808	TR 2SB1166-S
or	405 009 5009	TR 2SB926-S
D901	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D902	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D904	407 053 8005	ZENER DIODE MTZ7.5B
D907	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D908	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
C715	403 057 2803	POLYESTER-0.1U K 50V
C815	403 057 2803	POLYESTER 0.1U K 50V
C919	403 063 0800	POLYESTER 6800P M 50V
C920	403 063 0800	POLYESTER 6800P M 50V
C921	403 062 5905	POLYESTER 5600P M 50V

CLOCK P.C.BOARD ASSY

Ref. No.	Part No.	Description
73	614 218 6305	ASSY, PCB, CLOCK
	614 035 4959	SOCKET, 6P, AMP
X401	614 211 7354	CRYSTAL
IC401	409 194 5806	IC LC5732-1046

SWITCH P.C.BOARD ASSY

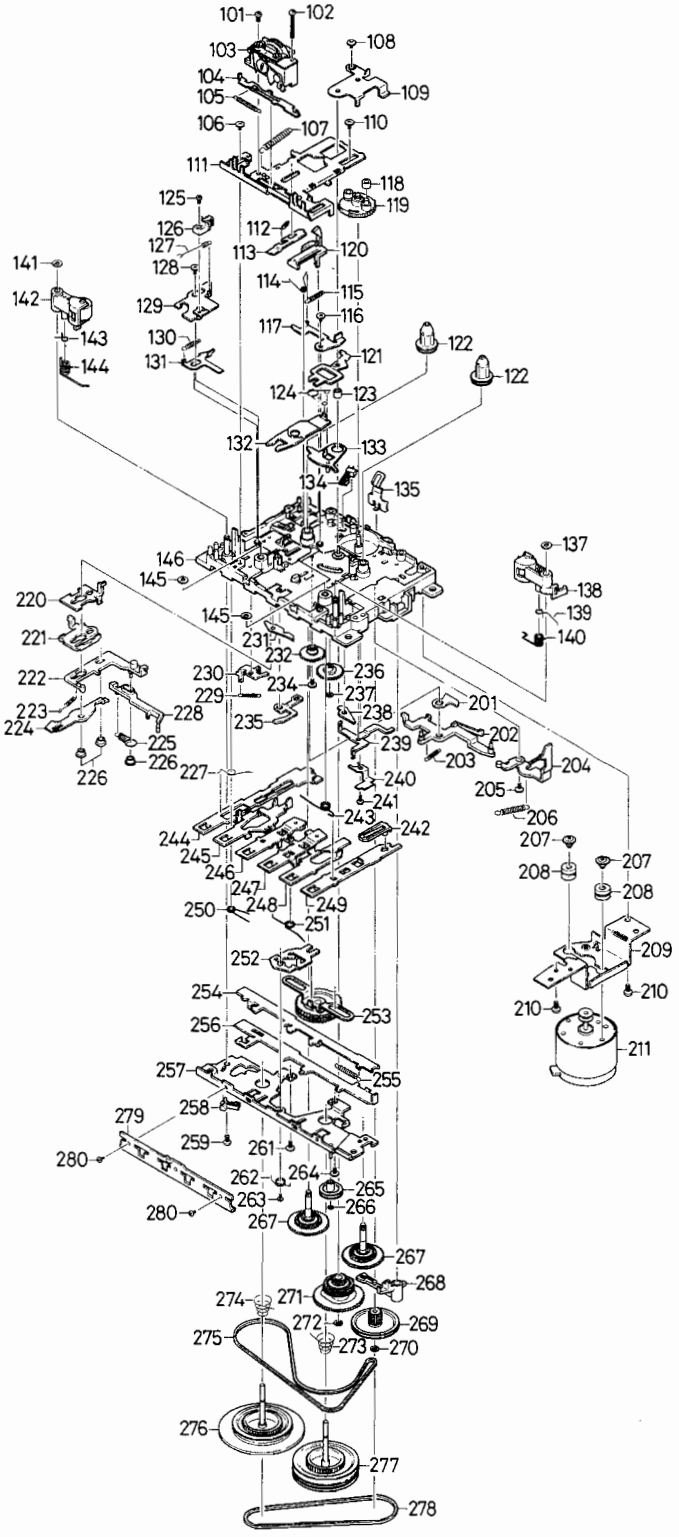
Ref. No.	Part No.	Description
74	614 215 4342	ASSY, PCB, SWITCH
S401	614 018 9049	SWITCH, ON/OFF
S402	614 018 9049	SWITCH, REAL
S403	614 018 9049	SWITCH, SNOOZE
S404	614 018 9049	SWITCH, RESET
S405	614 215 4748	SWITCH, TIME SET
S406	614 215 4724	SWITCH, SLIDE, MODE
D401	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133
D402	407 007 9904	DIODE GMA01
or	407 012 4406	DIODE 1SS133

LCD P.C.BOARD ASSY

Ref. No.	Part No.	Description
75	614 215 4359	ASSY, PCB, LCD
	614 215 4755	LCD
	614 215 4700	CONNECTOR-P, LCD

LED P.C.BOARD ASSY

Ref. No.	Part No.	Description
76	614 217 1530	ASSY, PCB, LED
D911	407 113 0703	LED SLP-181B-51-A
D912	407 113 0703	LED SLP-181B-51-A

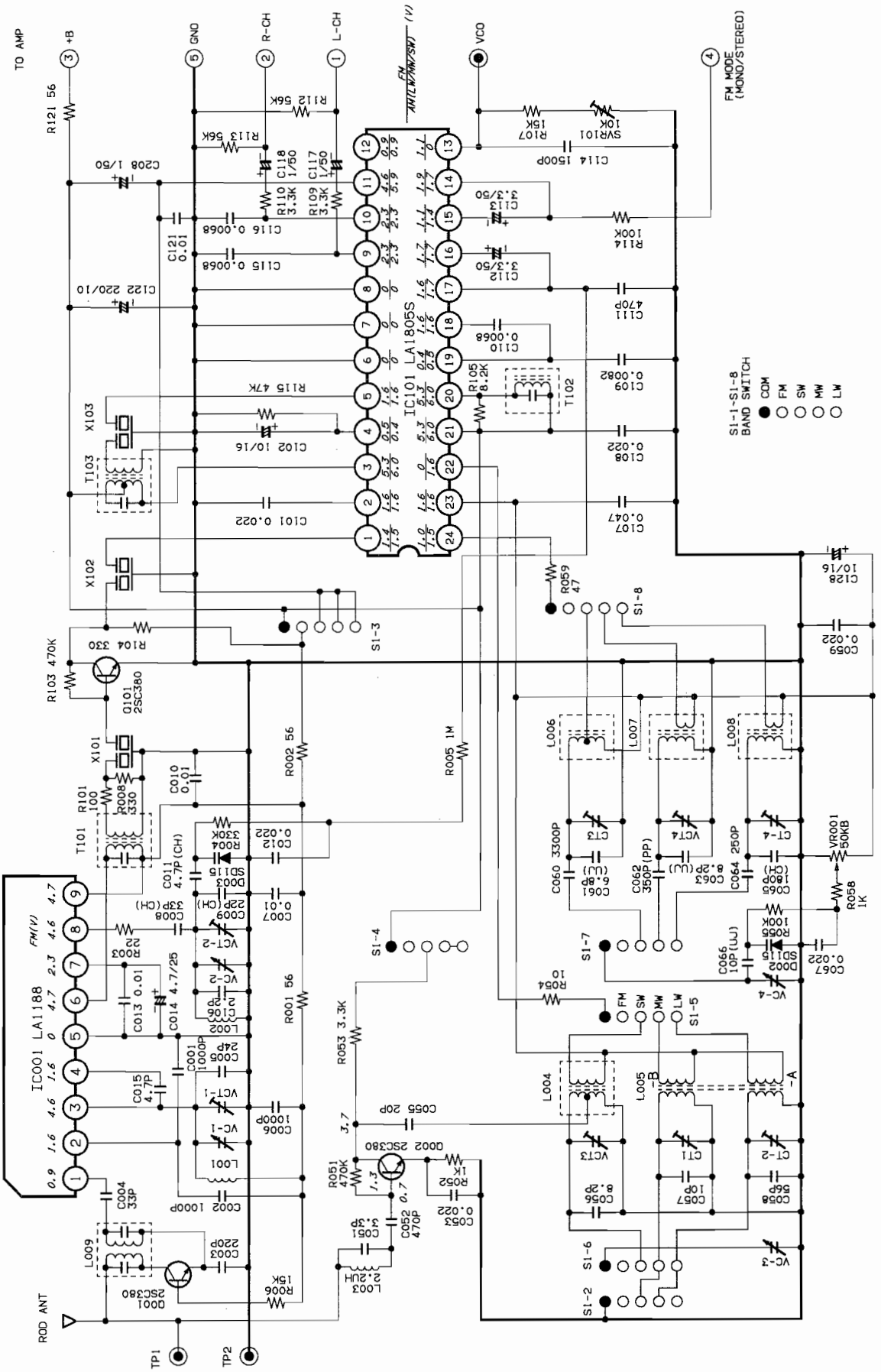


MECHANISM (TM-U4S12TP/SP) (N.S.P.)

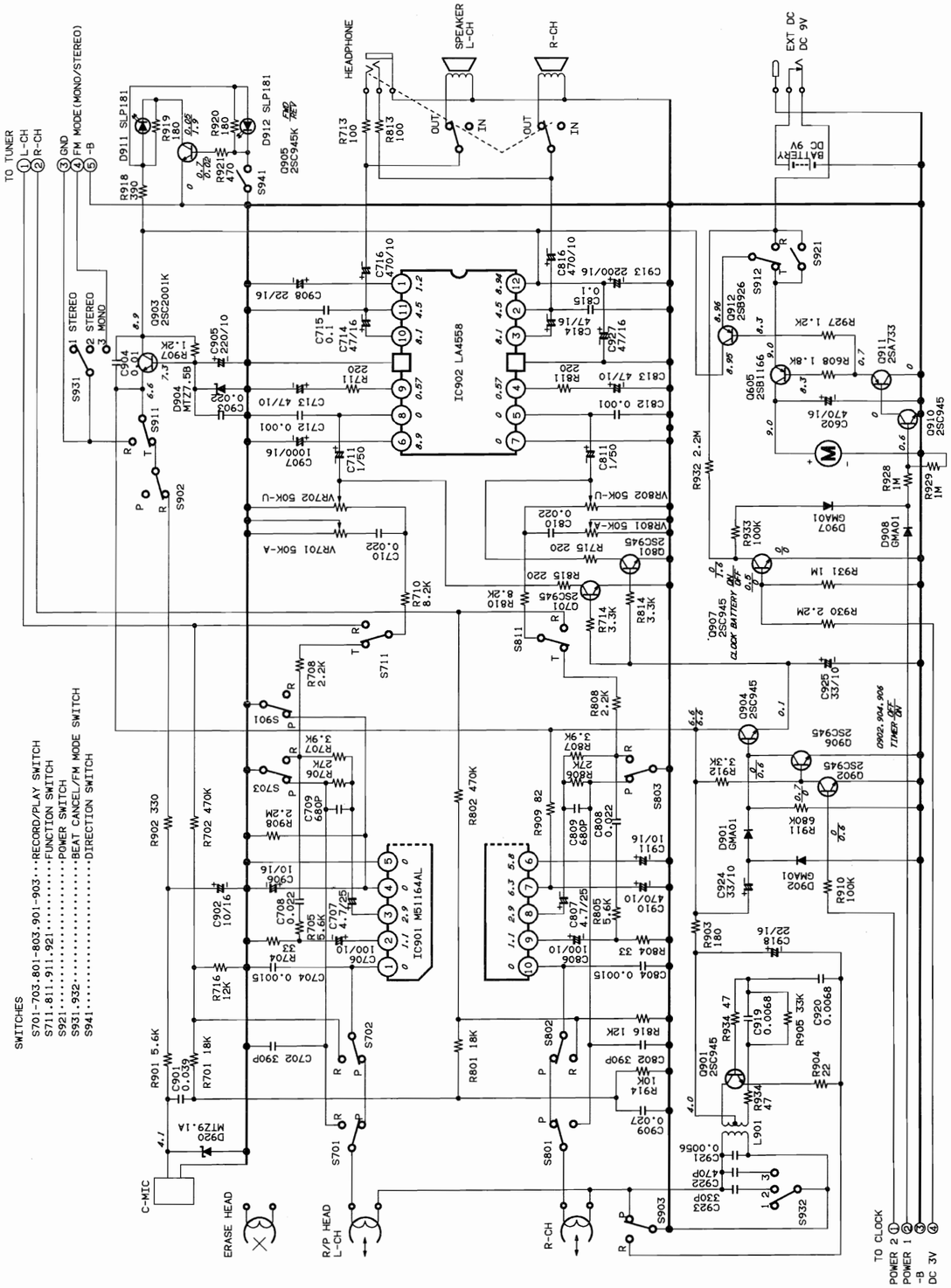
Ref. No.	Part No.	Description
101	412 023 7506	SPECIAL SCREW
102	412 023 6905	SPECIAL SCREW
103	614 220 1572	ROTARY HEAD BLOCK ASSY
104	614 219 1026	SLIDE ASSY
105	614 151 6820	SPRING COIL
106	412 023 6608	SPECIAL SCREW
107	614 219 1279	SPRING WIRE
108	412 023 6707	SPECIAL SCREW
109	614 113 7605	BRACKET, HOLDER GEAR
110	412 023 6608	SPECIAL SCREW
111	614 069 8794	SLIDE ASSY, HEAD SLIDE
112	614 151 6837	SPRING COIL
113	614 139 0857	SLIDE, LEVER GEAR STOP
114	614 151 6783	SPRING COIL
115	614 151 6776	SPRING COIL
116	412 023 7704	SPECIAL SCREW
117	614 140 0976	LEVER, JOINT
118	614 128 1902	PIPE, COLLER
119	614 069 0781	GEAR ASSY, REVERSE
120	614 219 0777	LEVER, PLATE INTER LOCK
121	614 140 0952	LEVER, REVERSE
122	614 132 1172	REEL GUIDE, REEL CAP
123	614 219 8957	PIPE
124	614 219 1286	SPRING WIRE
125	412 035 9208	SPECIAL SCREW
126	614 021 8886	MAGNETIC HEAD, ERASE
127	614 151 6806	SPRING COIL
128	412 023 7704	SPECIAL SCREW
129	614 139 0833	SLIDE, ERASE LEVER
130	614 151 6790	SPRING COIL
131	614 140 0983	LEVER, RECORD STOP
132	614 140 0969	LEVER, REVERSE
133	614 070 0855	LEVER ASSY, IDLER PLATE
134	614 024 2997	SWITCH, DIRECTION
135	614 151 8176	SPRING PLATE
137	412 023 8107	SPECIAL WASHER
138	614 219 0975	LEVER PINCH ROLLER ASSY, FWD
139	614 152 1053	SPRING WIRE, LEVER PINCH ROLLER
140	614 219 1293	SPRING WIRE, LEVER PINCH ROLLER
141	412 023 8107	SPECIAL WASHER
142	614 219 0982	LEVER PINCH ROLLER ASSY, REVERSE
143	614 152 1084	SPRING WIRE, LEVER PINCH ROLLER
144	614 152 1060	SPRING WIRE, LEVER PINCH ROLLER
145	412 023 8206	SPECIAL WASHER
146	614 219 0937	CHASSIS ASSY, MECHANISM
201	614 140 1058	LEVER, ARM RECORD
202	614 219 1231	LEVER
203	614 151 6851	SPRING COIL
204	614 219 1224	LEVER, EJECT
205	412 023 6707	SPECIAL SCREW
206	614 219 0272	SPRING, TENSION
207	412 023 7209	SPECIAL SCREW
208	614 126 6664	CUSHION, MOTOR
209	614 219 1125	BRACKET MOTOR
210	412 023 7308	SPECIAL SCREW
211	614 219 0500	COMMUTATE MOTOR ASSY
220	614 139 0956	SLIDE
221	614 139 0963	SLIDE
222	614 139 0970	SLIDE, LEVER SENSOR
223	614 219 0289	SPRING, TENSION
224	614 219 1248	LEVER, CANCEL
225	614 151 6868	SPRING COIL
226	614 129 0577	BOSS, BUSH
227	614 152 1114	SPRING WIRE
228	614 140 1096	LEVER, LEVER SENSOR
229	614 219 0265	SPRING, TENSION
230	614 140 1034	LEVER, PLATE SWITCH
231	614 140 1027	LEVER, ARM CUE

Ref. No.	Part No.	Description
232	614 134 8643	GEAR, FWD
234	412 023 6707	SPECIAL SCREW
235	614 140 1041	LEVER, PLATE SWITCH
236	614 134 8674	GEAR, IDLER
237	412 023 7902	SPECIAL WASHER
238	614 140 1010	LEVER, PAUSE
239	614 140 1003	LEVER, PLATE SENSOR STOP
240	614 219 0296	SPRING, PLATE
241	412 035 9000	SPECIAL SCREW
242	614 140 1126	LEVER, ARM PAUSE LOCK
243	614 219 1309	SPRING WIRE
244	614 139 0918	SLIDE, LEVER RECORD
245	614 139 0901	SLIDE, LEVER PLAY
246	614 139 0895	SLIDE, REW
247	614 139 0888	SLIDE, F.FWD
248	614 139 0871	SLIDE, LEVER STOP/EJECT
249	614 139 0864	SLIDE, LEVER PAUSE
250	614 152 1091	SPRING WIRE
251	614 152 1107	SPRING WIRE
252	614 140 1065	LEVER, FF IDLER
253	614 220 1596	GEAR ASSY
254	614 219 1200	SLIDE, PLATE FUNCTION
255	614 151 6844	SPRING COIL
256	614 139 0932	SLIDE, PLATE FUNCTION
257	614 219 0920	BRACKET ASSY, LEVER HOLDER
258	614 024 3000	SWITCH, POWER
259	412 023 7308	SPECIAL SCREW
261	412 023 6707	SPECIAL SCREW
262	614 152 1138	SPRING WIRE
263	412 023 6608	SPECIAL SCREW
264	412 023 6707	SPECIAL SCREW
265	614 135 9281	PULLEY
266	412 023 7902	SPECIAL WASHER
267	614 220 1589	GEAR REEL ASSY
268	614 140 1119	LEVER, ARM SENSOR STOP
269	614 135 9274	PULLEY, DRIVE
270	412 023 8008	SPECIAL WASHER
271	614 219 1019	GEAR ASSY, TENSION
272	412 023 8008	SPECIAL WASHER
273	614 151 6875	SPRING COIL, FLYWHEEL, FWD
274	614 151 6882	SPRING COIL, FLYWHEEL, REV
275	614 133 4103	SQUARE BELT
276	614 219 0968	FLYWHEEL ASSY, REV
277	614 219 0951	FLYWHEEL ASSY, FWD
278	614 133 4097	SQUARE BELT
279	614 219 0210	HOLDER
280	412 035 8904	SPECIAL SCREW
	614 130 0788	LUG

SCHEMATIC DIAGRAM (TUNER)



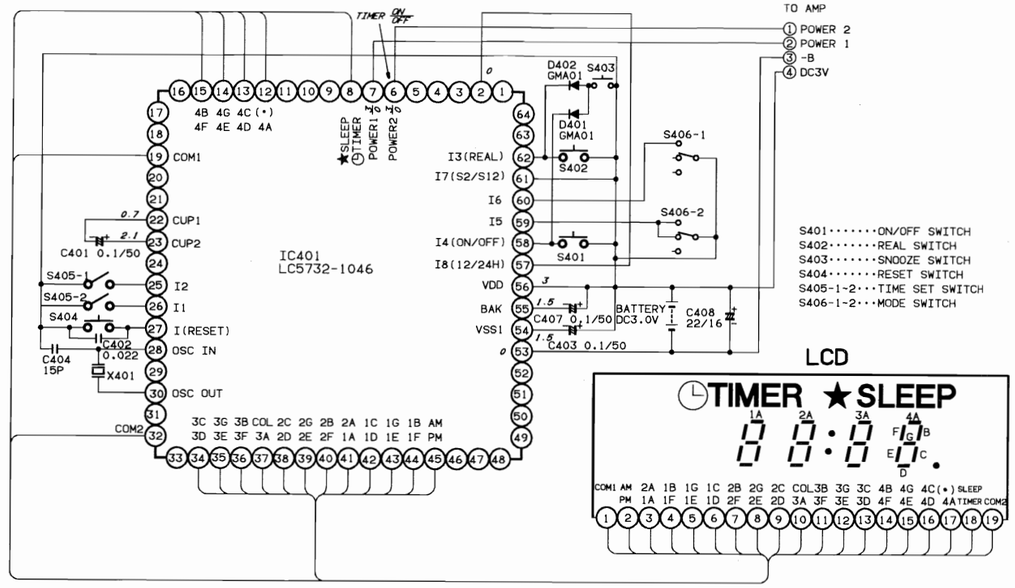
SCHEMATIC DIAGRAM (AMP.)



SWITCHES

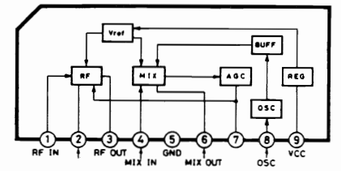
S701-703.801-803.901-903···RECORD/PLAY SWITCH
S711.811.911.921·····FUNCTION SWITCH
S921·····POWER SWITCH
S931.932·····BEAT CANCEL/FM MODE SWITCH
S941·····DIRECTION SWITCH

SCHEMATIC DIAGRAM (TIMER)

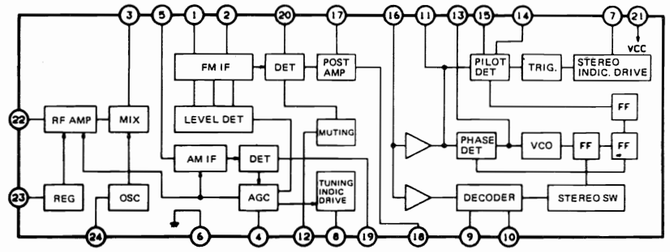


IC BLOCK DIAGRAM

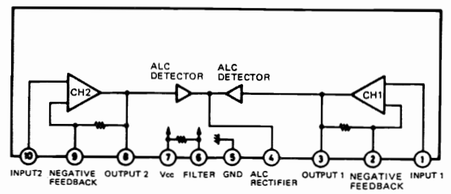
IC001 LA1188
(FM FRONT END)



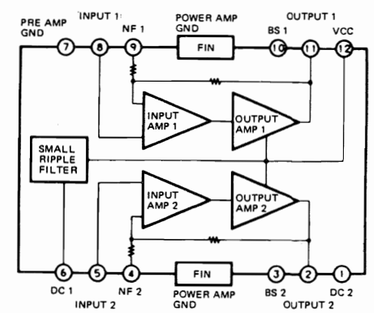
IC101 LA1805
(AM/FM 1 - CHIP RADIO)



IC901 M51164AL
(PRE - AMP.)



IC902 LA4558
(POWER AMP.)



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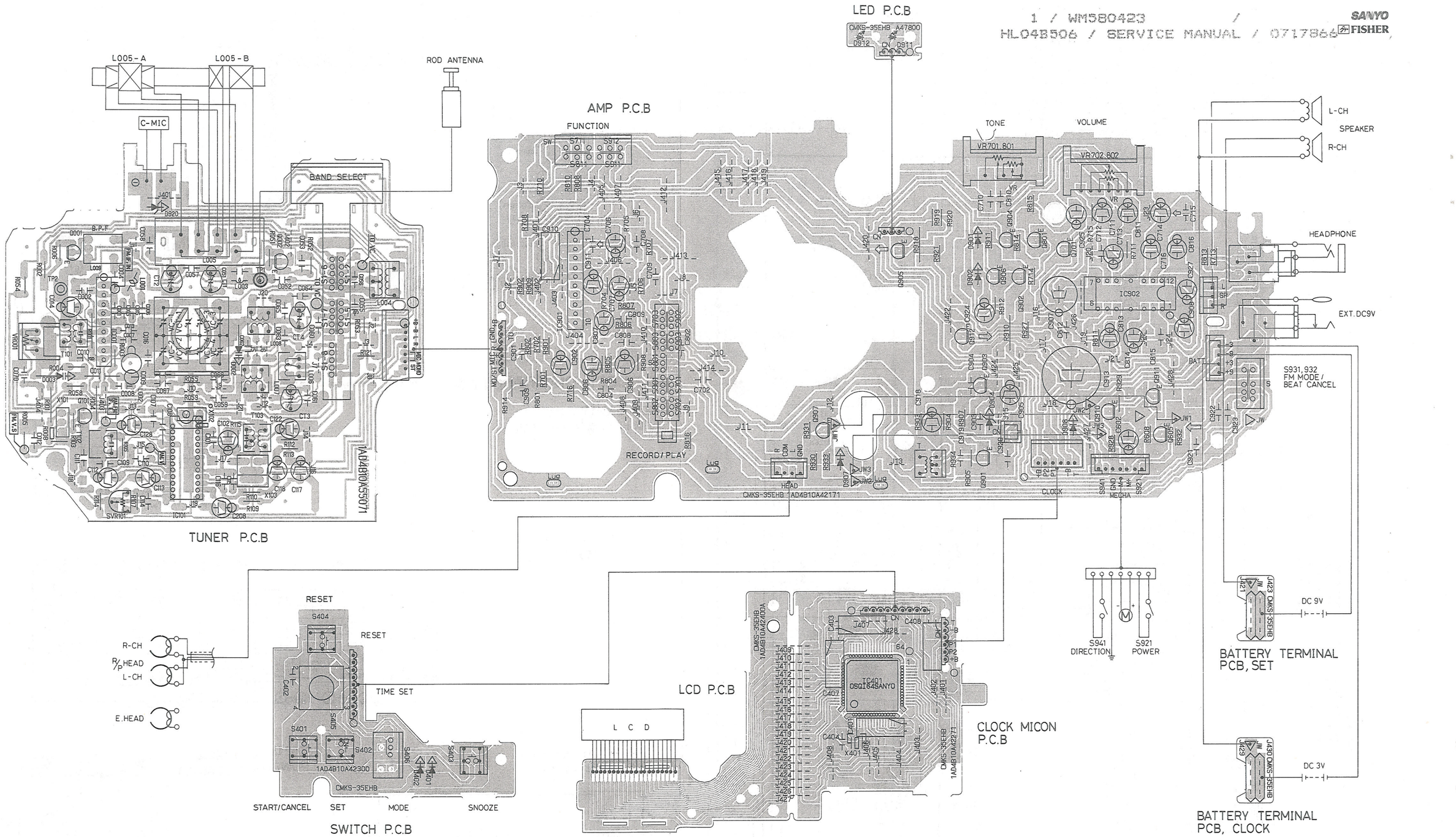
SANYO FISHER



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